



## SEQUENCE LISTING

<110> Sundelin, Johan  
Scarborough, Robert M.

<120> Recombinant C140 Receptor, Its Agonists and Antagonists, and  
Nucleic Acids Encoding the Receptor

<130> 44481-5006-09-US

<140> US 10/643,627  
<141> 2003-08-19

<150> US 10/127,691  
<151> 2002-04-23

<150> US 08/097,938  
<151> 1993-07-26

<150> US 08/390,301  
<151> 1995-01-25

<150> US 08/474,414  
<151> 1995-06-07

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<170> PatentIn Ver. 2.1

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<222> (232)..(1416)

<223> C140 receptor, genomic DNA and deduced protein  
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Tyr Cys Ser Ile Leu Phe Met Thr Cys Leu Ser Val Gln Arg Tyr Trp  
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Pro Leu Tyr Val Val Lys Gln Thr Ile Phe Ile Pro Ala Leu Asn Ile  
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Thr Thr Cys His Asp Val Leu Pro Glu Gln Leu Leu Val Gly Asp Met  
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Phe Asn Tyr Phe Leu Ser Leu Ala Ile Gly Val Phe Leu Phe Pro Ala  
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Phe Leu Thr Ala Ser Ala Tyr Val Leu Met Ile Arg Met Leu Arg Ser  
260 265 270  
Ser Ala Met Asp Glu Asn Ser Glu Lys Lys Arg Lys Ala Ile Lys  
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 Ala Arg Asn Ala Leu Leu Cys Arg Ser Val Arg Thr Val Asn Arg Met  
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 Phe Ser Ala Ser Val Leu Thr Gly Lys Leu Thr Thr Val Phe Leu Pro  
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 Ala Leu Trp Val Phe Leu Phe Arg Thr Lys Lys Lys His Pro Ala Val  
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 115 120 125  
 Phe Pro Leu Lys Ile Ala Tyr His Ile His Gly Asn Asn Trp Ile Tyr  
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 Gly Glu Ala Leu Cys Asn Val Leu Ile Gly Phe Phe Tyr Gly Asn Met  
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Pro	Leu	Tyr	Val	Val	Lys	Gln	Thr	Ile	Phe	Ile	Pro	Ala	Leu	Asn	Ile
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 Gly Phe Leu Leu Ser Ala Arg Thr Arg Ala Arg Arg Pro Glu Ser Lys  
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 Ala Thr Asn Ala Thr Leu Asp Pro Arg Ser Phe Leu Leu Arg Asn Pro  
 35 40 45  
 Asn Asp Lys Tyr Glu Pro Phe Trp Glu Asp Glu Glu Lys Asn Glu Ser  
 50 55 60  
 Gly Leu Thr Glu Tyr Arg Leu Val Ser Ile Asn Lys Ser Ser Pro Leu  
 65 70 75 80

Gln Lys Gln Leu Pro Ala Phe Ile Ser Glu Asp Ala Ser Gly Tyr Leu  
 85 90 95  
 Thr Ser Ser Trp Leu Thr Leu Phe Val Pro Ser Val Tyr Thr Gly Val  
 100 105 110  
 Phe Val Val Ser Leu Pro Leu Asn Ile Met Ala Ile Val Val Phe Ile  
 115 120 125  
 Leu Lys Met Lys Val Lys Lys Pro Ala Val Val Tyr Met Leu His Leu  
 130 135 140  
 Ala Thr Ala Asp Val Leu Phe Val Ser Val Leu Pro Phe Lys Ile Ser  
 145 150 155 160  
 Tyr Tyr Phe Ser Gly Ser Asp Trp Gln Phe Gly Ser Glu Leu Cys Arg  
 165 170 175  
 Phe Val Thr Ala Ala Phe Tyr Cys Asn Met Tyr Ala Ser Ile Leu Leu  
 180 185 190  
 Met Thr Val Ile Ser Ile Asp Arg Phe Leu Ala Val Val Tyr Pro Met  
 195 200 205  
 Gln Ser Leu Ser Trp Arg Thr Leu Gly Arg Ala Ser Phe Thr Cys Leu  
 210 215 220  
 Ala Ile Trp Ala Leu Ala Ile Ala Gly Val Val Pro Leu Val Leu Lys  
 225 230 235 240  
 Glu Gln Thr Ile Gln Val Pro Gly Leu Asn Ile Thr Thr Cys His Asp  
 245 250 255  
 Val Leu Asn Glu Thr Leu Leu Glu Gly Tyr Tyr Ala Tyr Tyr Phe Ser  
 260 265 270  
 Ala Phe Ser Ala Val Phe Phe Phe Val Pro Leu Ile Ile Ser Thr Val  
 275 280 285  
 Cys Tyr Val Ser Ile Ile Arg Cys Leu Ser Ser Ser Ala Val Ala Asn  
 290 295 300  
 Arg Ser Lys Lys Ser Arg Ala Leu Phe Leu Ser Ala Ala Val Phe Cys  
 305 310 315 320  
 Ile Phe Ile Ile Cys Phe Gly Pro Thr Asn Val Leu Leu Ile Ala His  
 325 330 335  
 Tyr Ser Phe Leu Ser His Thr Ser Thr Thr Glu Ala Ala Tyr Phe Ala  
 340 345 350  
 Tyr Leu Leu Cys Val Cys Val Ser Ser Ile Ser Ser Cys Ile Asp Pro  
 355 360 365  
 Leu Ile Tyr Tyr Tyr Ala Ser Ser Glu Cys Gln Arg Tyr Val Tyr Ser  
 370 375 380  
 Ile Leu Cys Cys Lys Glu Ser Ser Asp Pro Ser Ser Tyr Asn Ser Ser  
 385 390 395 400  
 Gly Gln Leu Met Ala Ser Lys Met Asp Thr Cys Ser Ser Asn Leu Asn  
 405 410 415  
 Asn Ser Ile Tyr Lys Lys Leu Leu Thr  
 420 425

<210> 8  
<211> 7

<212> PRT  
<213> Mus musculus

<220>  
<223> C140 receptor activation peptide

<400> 8  
Arg Asn Asn Ser Lys Gly Arg  
1 5

<210> 9  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> VARIANT  
<222> (1)  
<223> Xaa at position 1 = 3-mercaptopropionic acid

<220>  
<223> Description of Artificial Sequence: C140 receptor antagonist

<400> 9  
Xaa Leu Leu Gly Lys  
1 5

<210> 10  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: C140 antagonist

<220>  
<221> VARIANT  
<222> (1)  
<223> Xaa at position 1 = 3-mercaptopropionic acid

<400> 10  
Xaa Leu Ile Gly Arg  
1 5

<210> 11  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: C140 receptor antagonist

<220>  
<221> VARIANT  
<222> (1)..(2)  
<223> Xaa at position 1 = 3-mercaptopropionic acid; Xaa at position 2 = cyclohexylalanine

<400> 11  
Xaa Xaa Leu Lys Gly  
1 5

<210> 12

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<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
      antagonist

<220>
<221> VARIANT
<222> (1)..(2)
<223> Xaa at position 1 = 3-mercaptopropionic acid; Xaa
      at position 2 = cyclohexylalanine

<400> 12
Xaa Xaa Ile Gly Arg
  1           5

<210> 13
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
      antagonist

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 = 3-mercaptopropionic acid

<400> 13
Xaa Leu Leu Gly Lys Lys
  1           5

<210> 14
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
      antagonist

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 = 3-mercaptopropionic acid

<400> 14
Xaa Leu Ile Gly Arg Lys
  1           5

<210> 15
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
      antagonist

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 = 3-mercaptopropionic acid

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<400> 15  
Xaa Leu Ile Gly Arg Lys Glu Thr Gln Pro  
1 5 10

<210> 16  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: C140 receptor antagonist

<220>  
<221> VARIANT  
<222> (1)  
<223> Xaa at position 1 = 3-mercaptopropionic acid

<400> 16  
Xaa Leu Leu Gly Lys Lys Asp Gly Thr Ser  
1 5 10

<210> 17  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: C140 receptor antagonist

<220>  
<221> VARIANT  
<222> (1)  
<223> Xaa at position 1 = (n-pentyl) 2-N-Leu

<400> 17  
Xaa Ile Gly Arg Lys  
1 5

<210> 18  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: C140 receptor antagonist

<220>  
<221> VARIANT  
<222> (1)  
<223> Xaa at position 1 = Me-N-(n-pentyl)

<400> 18  
Xaa Leu Ile Gly Arg Lys  
1 5

<210> 19  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: C140 receptor

agonist/immunogen

<400> 19  
 Ser Lys Gly Arg Ser Leu Ile Gly Arg Leu Glu Thr  
 1 5 10

<210> 20  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: C140 receptor  
 agonist/immunogen

<400> 20  
 Ile Ser Tyr His Leu His Gly Asn Asn Trp Val Tyr Gly Glu Ala Leu  
 1 5 10 15

Cys

<210> 21  
 <211> 31  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: C140 receptor  
 agonist/immunogen

<400> 21  
 Gln Thr Ile Tyr Ile Pro Ala Leu Asn Ile Thr Thr Cys His Asp Val  
 1 5 10 15

Leu Pro Glu Glu Val Leu Val Gly Asp Met Phe Asn Tyr Phe Leu  
 20 25 30

<210> 22  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: C140 receptor  
 agonist/immunogen

<400> 22  
 His Tyr Phe Leu Ile Lys Thr Gln Arg Gln Ser His Val Tyr Ala  
 1 5 10 15

<210> 23  
 <211> 6  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: C140 receptor  
 agonist

<400> 23  
 Ser Leu Ile Gly Arg Leu  
 1 5

<210> 24

<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: C140 receptor  
agonist

<400> 24  
Ser Leu Ile Gly Arg Ala  
1 5

<210> 25  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: C140 receptor  
agonist

<400> 25  
Ser Leu Ile Gly Ala Leu  
1 5

<210> 26  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: C140 receptor  
agonist

<400> 26  
Ser Leu Ile Ala Arg Leu  
1 5

<210> 27  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: C140 receptor  
agonist

<400> 27  
Ser Leu Ala Gly Arg Leu  
1 5

<210> 28  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: C140 receptor  
agonist

<400> 28  
Ser Ala Ile Gly Arg Leu  
1 5

<210> 29

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<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
      agonist

<400> 29
Ala Leu Ile Gly Arg Leu
  1          5

<210> 30
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
      agonist

<400> 30
Ser Phe Phe Leu Arg Trp
  1          5

<210> 31
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
      agonist

<400> 31
Arg Asn Asn Ser Ser Lys Gly Arg
  1          5

<210> 32
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
      agonist

<400> 32
Ser Leu Ile Gly Arg Leu Glu Thr Gln Pro Pro Ile Thr
  1          5          10

<210> 33
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
      agonist

<400> 33
Ser Leu Ile Gly Arg Leu Glu Thr Gln Pro Pro Ile
  1          5          10

<210> 34

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<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: C140 receptor  
agonist

<400> 34  
Ser Leu Ile Gly Arg Leu Glu Thr Gln Pro Pro  
1 5 10

<210> 35  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: C140 receptor  
agonist

<400> 35  
Ser Leu Ile Gly Arg Leu Glu Thr Gln Pro  
1 5 10

<210> 36  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: C140 receptor  
agonist

<400> 36  
Ser Leu Ile Gly Arg Leu Glu Thr Gln  
1 5

<210> 37  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: C140 agonist

<400> 37  
Ser Leu Ile Gly Arg Leu Glu Thr  
1 5

<210> 38  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: C140 receptor  
agonist

<400> 38  
Ser Leu Ile Gly Arg Leu Glu  
1 5

<210> 39  
<211> 6

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: C140 receptor  
agonist

<400> 39  
Ser Leu Ile Gly Arg Leu  
1 5

<210> 40  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: C140 receptor  
agonist

<400> 40  
Ser Leu Ile Gly Arg  
1 5

<210> 41  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: C140 receptor  
agonist

<400> 41  
Ser Leu Leu Gly Lys Val Asp Gly Thr Ser His Val Thr  
1 5 10

<210> 42  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: C140 receptor  
agonist

<400> 42  
Ser Leu Leu Gly Lys Val Asp Gly Thr Ser His Val  
1 5 10

<210> 43  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: C140 receptor  
agonist

<400> 43  
Ser Leu Leu Gly Lys Val Asp Gly Thr Ser His  
1 5 10

<210> 44  
<211> 10

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<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
      agonist

<400> 44
Ser Leu Leu Gly Lys Val Asp Gly Thr Ser
      5           10

<210> 45
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
      agonist

<400> 45
Ser Leu Leu Gly Lys Val Asp Gly Thr
      1           5

<210> 46
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
      agonist

<400> 46
Ser Leu Leu Gly Lys Val Asp Gly
      1           5

<210> 47
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
      agonist

<400> 47
Ser Leu Leu Gly Lys Val Asp
      1           5

<210> 48
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
      agonist

<400> 48
Ser Leu Leu Gly Lys Val
      1           5

<210> 49
<211> 5
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<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
      agonist

<400> 49
Ser Leu Leu Gly Lys
  1           5

<210> 50
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
      agonist

<220>
<221> VARIANT
<222> (2)
<223> Xaa at position 2 = cyclohexylalanine (Cha)

<400> 50
Ser Xaa Ile Gly Arg
  1           5

<210> 51
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
      agonist

<220>
<221> VARIANT
<222> (2)
<223> Xaa at position 2 = cyclohexylalanine (Cha)

<400> 51
Ser Xaa Leu Gly Lys
  1           5

<210> 52
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
      agonist

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 = 2,3-diamino propionic acid
      (2,3-diaP)

<400> 52
Xaa Ile Gly Arg
  1
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<210> 53
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 = 2,3-diamino propionic acid
(2,3-diaP)

<400> 53
Xaa Leu Leu Gly Lys
1 5

<210> 54
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 54
Ser Leu Leu Gly Lys Arg
1 5

<210> 55
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 55
Ser Leu Ile Gly Arg Arg
1 5

<210> 56
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<220>
<221> VARIANT
<222> (2)
<223> Xaa at position 2= cyclohexylalanine (Cha)

<400> 56
Ser Xaa Leu Gly Lys Lys
1 5

<210> 57
<211> 6
<212> PRT

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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 agonist
      receptor

<220>
<221> VARIANT
<222> (2)
<223> Xaa at position 2 = cyclohexylalanine (Cha)

<400> 57
Ser Xaa Ile Gly Arg Lys
    1           5

<210> 58
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
      agonist

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 = 2,3-diamino propionic acid
      (2,3-diaP)

<400> 58
Xaa Leu Ile Gly Arg Lys
    1           5

<210> 59
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
      agonist

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 = 2,3-diamino propionic acid
      (2,3-diaP)

<400> 59
Xaa Leu Leu Gly Lys Lys
    1           5

<210> 60
<211> 2732
<212> DNA
<213> Mus musculus

<220>
<221> CDS
<222> (73)..(1269)
<223> C140 receptor, cDNA and deduced protein sequences

<400> 60
ccctgtgctc agagtagggc tccgagttc gaaccactgg tggcggattg cccgcccc 60
ccacgtccgg gg atg cga agt ctc agc ctg gcg tgg ctg ctg gga ggt atc 111

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Met Arg Ser Leu Ser Leu Ala Trp Leu Leu Gly Gly Ile			
1	5	10	
acc ctt ctg gcg gcc tcg gtc tcc tgc agc cgg acc gag aac ctt gca			159
Thr Leu Leu Ala Ala Ser Val Ser Cys Ser Arg Thr Glu Asn Leu Ala			
15	20	25	
ccg gga cgc aac aac agt aaa gga aga agt ctt att ggc aga tta gaa			207
Pro Gly Arg Asn Asn Ser Lys Gly Arg Ser Leu Ile Gly Arg Leu Glu			
30	35	40	45
acc cag cct cca atc act ggg aaa ggg gtt ccg gta gaa cca ggc ttt			255
Thr Gln Pro Pro Ile Thr Gly Lys Gly Val Pro Val Glu Pro Gly Phe			
50	55	60	
tcc atc gat gag ttc tct gcg tcc atc ctc acc ggg aag ctg acc acg			303
Ser Ile Asp Glu Phe Ser Ala Ser Ile Leu Thr Gly Lys Leu Thr Thr			
65	70	75	
gtc ttt ctt ccg gtc gtc tac att att gtg ttt gtg att ggt ttg ccc			351
Val Phe Leu Pro Val Val Tyr Ile Ile Val Phe Val Ile Gly Leu Pro			
80	85	90	
agt aat ggc atg gcc ctc tgg atc ttc ctt ttc cga acg aag aag aaa			399
Ser Asn Gly Met Ala Leu Trp Ile Phe Leu Phe Arg Thr Lys Lys Lys			
95	100	105	
cac ccc gcc gtg att tac atg gcc aac ctg gcc ttg gcc gac ctc ctc			447
His Pro Ala Val Ile Tyr Met Ala Asn Leu Ala Leu Ala Asp Leu Leu			
110	115	120	125
tct gtc atc tgg ttc ccc ctg aag atc tcc tac cac cta cat ggc aac			495
Ser Val Ile Trp Phe Pro Leu Lys Ile Ser Tyr His Leu His Gly Asn			
130	135	140	
aac tgg gtc tac ggg gag gcc ctg tgc aag gtg ctc att ggc ttt ttc			543
Asn Trp Val Tyr Gly Glu Ala Leu Cys Lys Val Leu Ile Gly Phe Phe			
145	150	155	
tat ggt aac atg tat tgc tcc atc ctc ttc atg acc tgc ctc agc gtg			591
Tyr Gly Asn Met Tyr Cys Ser Ile Leu Phe Met Thr Cys Leu Ser Val			
160	165	170	
cag agg tac tgg gtg atc gtg aac ccc atg gga cac ccc agg aag aag			639
Gln Arg Tyr Trp Val Ile Val Asn Pro Met Gly His Pro Arg Lys Lys			
175	180	185	
gca aac atc gcc gtt ggc gtc tcc ttg gca atc tgg ctc ctg att ttt			687
Ala Asn Ile Ala Val Gly Val Ser Leu Ala Ile Trp Leu Leu Ile Phe			
190	195	200	205
ctg gtc acc atc cct ttg tat gtc atg aag cag acc atc tac att cca			735
Leu Val Thr Ile Pro Leu Tyr Val Met Lys Gln Thr Ile Tyr Ile Pro			
210	215	220	
gca ttg aac atc acc acc tgt cac gat gtg ctg cct gag gag gta ttg			783
Ala Leu Asn Ile Thr Thr Cys His Asp Val Leu Pro Glu Glu Val Leu			
225	230	235	
gtg ggg gac atg ttc aat tac ttc ctc tca ctg gcc att gga gtc ttc			831
Val Gly Asp Met Phe Asn Tyr Phe Leu Ser Leu Ala Ile Gly Val Phe			
240	245	250	
ctg ttc ccg gcc ctc ctt act gca tct gcc tac gtg ctc atg atc aag			879
Leu Phe Pro Ala Leu Leu Thr Ala Ser Ala Tyr Val Leu Met Ile Lys			
255	260	265	
acg ctc cgc tct tct gct atg gat gaa cac tca gag aag aaa agg cag			927
Thr Leu Arg Ser Ser Ala Met Asp Glu His Ser Glu Lys Lys Arg Gln			
270	275	280	285

agg gct atc cga ctc atc atc acc gtg ctg gcc atg tac ttc atc tgc 975  
 Arg Ala Ile Arg Leu Ile Ile Thr Val Leu Ala Met Tyr Phe Ile Cys  
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 Phe Ala Pro Ser Asn Leu Leu Leu Val Val His Tyr Phe Leu Ile Lys  
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 Thr Gln Arg Gln Ser His Val Tyr Ala Leu Tyr Leu Val Ala Leu Cys  
 320 325 330  
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 Leu Ser Thr Leu Asn Ser Cys Ile Asp Pro Phe Val Tyr Tyr Phe Val  
 335 340 345  
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 Ser Lys Asp Phe Arg Asp His Ala Arg Asn Ala Leu Leu Cys Arg Ser  
 350 355 360 365  
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 Val Arg Thr Val Asn Arg Met Gln Ile Ser Leu Ser Ser Asn Lys Phe  
 370 375 380  
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 Ser Arg Lys Ser Gly Ser Tyr Ser Ser Ser Thr Ser Val Lys Thr  
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 Ser Tyr  
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cctaccagtt agtattttat aaaaacagat catttgaata tttattatca gttttgttca 2519  
 cttgttatca gttttgttca ctaatttgc caataatgga attaacgtct tctcatctgt 2579  
 ttgaggaaga tctgaaacaa gggccattg caggagtaca tggctccagg cttactttat 2639  
 atactgcctg tatttgcggc tttaaaaaaa tgaccttgc atatgaatgc tttataaata 2699  
 aataatgcat gaactttaaa aaaaaaaaaa aaa 2732

<210> 61  
 <211> 399  
 <212> PRT  
 <213> Mus musculus

<400> 61  
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 Ala Ala Ser Val Ser Cys Ser Arg Thr Glu Asn Leu Ala Pro Gly Arg  
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 Asn Asn Ser Lys Gly Arg Ser Leu Ile Gly Arg Leu Glu Thr Gln Pro  
 35 40 45  
 Pro Ile Thr Gly Lys Gly Val Pro Val Glu Pro Gly Phe Ser Ile Asp  
 50 55 60  
 Glu Phe Ser Ala Ser Ile Leu Thr Gly Lys Leu Thr Thr Val Phe Leu  
 65 70 75 80  
 Pro Val Val Tyr Ile Ile Val Phe Val Ile Gly Leu Pro Ser Asn Gly  
 85 90 95  
 Met Ala Leu Trp Ile Phe Leu Phe Arg Thr Lys Lys His Pro Ala  
 100 105 110  
 Val Ile Tyr Met Ala Asn Leu Ala Leu Ala Asp Leu Leu Ser Val Ile  
 115 120 125  
 Trp Phe Pro Leu Lys Ile Ser Tyr His Leu His Gly Asn Asn Trp Val  
 130 135 140  
 Tyr Gly Glu Ala Leu Cys Lys Val Leu Ile Gly Phe Phe Tyr Gly Asn  
 145 150 155 160  
 Met Tyr Cys Ser Ile Leu Phe Met Thr Cys Leu Ser Val Gln Arg Tyr  
 165 170 175  
 Trp Val Ile Val Asn Pro Met Gly His Pro Arg Lys Lys Ala Asn Ile  
 180 185 190  
 Ala Val Gly Val Ser Leu Ala Ile Trp Leu Leu Ile Phe Leu Val Thr  
 195 200 205  
 Ile Pro Leu Tyr Val Met Lys Gln Thr Ile Tyr Ile Pro Ala Leu Asn  
 210 215 220  
 Ile Thr Thr Cys His Asp Val Leu Pro Glu Glu Val Leu Val Gly Asp  
 225 230 235 240  
 Met Phe Asn Tyr Phe Leu Ser Leu Ala Ile Gly Val Phe Leu Phe Pro  
 245 250 255  
 Ala Leu Leu Thr Ala Ser Ala Tyr Val Leu Met Ile Lys Thr Leu Arg  
 260 265 270  
 Ser Ser Ala Met Asp Glu His Ser Glu Lys Lys Arg Gln Arg Ala Ile  
 275 280 285

Arg	Leu	Ile	Ile	Thr	Val	Leu	Ala	Met	Tyr	Phe	Ile	Cys	Phe	Ala	Pro
290						295						300			
Ser	Asn	Leu	Leu	Leu	Val	Val	His	Tyr	Phe	Leu	Ile	Lys	Thr	Gln	Arg
305					310					315					320
Gln	Ser	His	Val	Tyr	Ala	Leu	Tyr	Leu	Val	Ala	Leu	Cys	Leu	Ser	Thr
				325					330					335	
Leu	Asn	Ser	Cys	Ile	Asp	Pro	Phe	Val	Tyr	Tyr	Phe	Val	Ser	Lys	Asp
			340				345						350		
Phe	Arg	Asp	His	Ala	Arg	Asn	Ala	Leu	Leu	Cys	Arg	Ser	Val	Arg	Thr
			355				360						365		
Val	Asn	Arg	Met	Gln	Ile	Ser	Leu	Ser	Ser	Asn	Lys	Phe	Ser	Arg	Lys
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<211> 1414
<212> DNA
<213> Homo sapiens
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<220>  
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<400> 62  
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Met Arg Ser  
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ccc agc gcg gcg tgg ctg ctg ggg gcc gcc atc ctg cta gca gcc tct	106
Pro Ser Ala Ala Trp Leu Leu Gly Ala Ala Ile Leu Leu Ala Ala Ser	
5 10 15	

ctc tcc tgc agt ggc acc atc caa gga acc aat aga tcc tct aaa gga 154  
 Leu Ser Cys Ser Gly Thr Ile Gln Gly Thr Asn Arg Ser Ser Lys Gly  
 20 25 30 35

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  aga agc ctt att ggt aag gtt gat ggc aca tcc cac gtc act gga aaa 202
  Arg Ser Leu Ile Gly Lys Val Asp Gly Thr Ser His Val Thr Gly Lys
        40          45          50

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gga gtt aca gtt gaa aca gtc ttt tct gtg gat gag ttt tct gca tct 250
Gly Val Thr Val Glu Thr Val Phe Ser Val Asp Glu Phe Ser Ala Ser
      55           60           65

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gtc ctc gct gga aaa ctg acc act gtc ttc ctt cca att gtc tac aca 298  
Val Leu Ala Gly Lys Leu Thr Thr Val Phe Leu Pro Ile Val Tyr Thr  
70 75 80

att gtg ttt gcg gtg ggt ttg cca agt aac ggc atg gcc cta tgg gtc 346  
 Ile Val Phe Ala Val Gly Leu Pro Ser Asn Gly Met Ala Leu Trp Val  
 85 90 95

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ttt ctt ttc cga act aag aag aag cac cct gct gtg att tac atg gcc 394
Phe Leu Phe Arg Thr Lys Lys Lys His Pro Ala Val Ile Tyr Met Ala
100          105                  110          115

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aat ctg gcc ttg gct gac ctc ctc tct gtc atc tgg ttc ccc ttg aag 442
Asn Leu Ala Leu Ala Asp Leu Leu Ser Val Ile Trp Phe Pro Leu Lys
120 125 130

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att gcc tat cac ata cat ggc aac aac tgg att tat ggg gaa gct ctt Ile Ala Tyr His Ile His Gly Asn Asn Trp Ile Tyr Gly Glu Ala Leu 135 140 145	490
tgt aat gtg ctt att ggc ttt ttc tat cgc aac atg tac tgt tcc att Cys Asn Val Leu Ile Gly Phe Phe Tyr Gly Asn Met Tyr Cys Ser Ile 150 155 160	538
ctc ttc atg acc tgc ctc agt gtg cag agg tat tgg gtc atc gtg aac Leu Phe Met Thr Cys Leu Ser Val Gln Arg Tyr Trp Val Ile Val Asn 165 170 175	586
ccc atg ggg cac tcc agg aag aag gca aac att gcc att ggc atc tcc Pro Met Gly His Ser Arg Lys Lys Ala Asn Ile Ala Ile Gly Ile Ser 180 185 190 195	634
ctg gca ata tgg ctg ctg act ctg ctg gtc acc atc cct ttg tat gtc Leu Ala Ile Trp Leu Leu Thr Leu Val Thr Ile Pro Leu Tyr Val 200 205 210	682
gtg aag cag acc atc ttc att cct gcc ctg aac atc acg acc tgc ttt Val Lys Gln Thr Ile Phe Ile Pro Ala Leu Asn Ile Thr Thr Cys His 215 220 225	730
gat gtt ttg cct gag cag ctc ttg gtg gga gac atg ttc aat tac ttc Asp Val Leu Pro Glu Gln Leu Val Gly Asp Met Phe Asn Tyr Phe 230 235 240	778
ctc tct ctg gcc att ggg gtc ttt ctg ttc cca gcc ttc ctc aca gcc Leu Ser Leu Ala Ile Gly Val Phe Leu Phe Pro Ala Phe Leu Thr Ala 245 250 255	826
tct gcc tat gtg ctg atg atc aga atg ctg cga tct tct gcc atg gat Ser Ala Tyr Val Leu Met Ile Arg Met Leu Arg Ser Ser Ala Met Asp 260 265 270 275	874
gaa aac tca gag aag aaa agg aag agg gcc atc aaa ctc att gtc act Glu Asn Ser Glu Lys Lys Arg Lys Arg Ala Ile Lys Leu Ile Val Thr 280 285 290	922
gtc ctg ggc atg tac ctg atc tgc ttc act cct agt aac ctt ctg ctt Val Leu Gly Met Tyr Leu Ile Cys Phe Thr Pro Ser Asn Leu Leu Leu 295 300 305	970
gtg gtg cat tat ttt ctg att aag agc cag ggc cag agc cat gtc tat Val Val His Tyr Phe Leu Ile Lys Ser Gln Gly Gln Ser His Val Tyr 310 315 320	1018
gcc ctg tac att gta gcc ctc tgc ctc tct acc ctt aac agc tgc atc Ala Leu Tyr Ile Val Ala Leu Cys Leu Ser Thr Leu Asn Ser Cys Ile 325 330 335	1066
gac ccc ttt gtc tat tac ttt gtt tca cat gat ttc agg gat cat gca Asp Pro Phe Val Tyr Tyr Phe Val Ser His Asp Phe Arg Asp His Ala 340 345 350 355	1114
aag aac gct ctc ctt tgc cga agt gtc cgc act gta aag cag atg caa Lys Asn Ala Leu Leu Cys Arg Ser Val Arg Thr Val Lys Gln Met Gln 360 365 370	1162
gta ccc ctc acc tca aag aaa cac tcc agg aaa tcc agc tct tac tct Val Pro Leu Thr Ser Lys Lys His Ser Arg Lys Ser Ser Tyr Ser 375 380 385	1210
tca agt tca acc act gtt aag acc tcc tat tgagtttcc aggtcctcag Ser Ser Ser Thr Thr Val Lys Thr Ser Tyr 390 395	1260
atggaaattt cacagtagga tgtggAACCT gtttaatgtt atgaggacgt gtctgttatt	1320

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<211> 397  
<212> PRT  
<213> Homo sapiens

<400> 63  
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Ser Lys Gly Arg Ser Leu Ile Gly Lys Val Asp Gly Thr Ser His Val  
35 40 45  
Thr Gly Lys Gly Val Thr Val Glu Thr Val Phe Ser Val Asp Glu Phe  
50 55 60  
Ser Ala Ser Val Leu Ala Gly Lys Leu Thr Thr Val Phe Leu Pro Ile  
65 70 75 80  
Val Tyr Thr Ile Val Phe Ala Val Gly Leu Pro Ser Asn Gly Met Ala  
85 90 95  
Leu Trp Val Phe Leu Phe Arg Thr Lys Lys Lys His Pro Ala Val Ile  
100 105 110  
Tyr Met Ala Asn Leu Ala Leu Ala Asp Leu Leu Ser Val Ile Trp Phe  
115 120 125  
Pro Leu Lys Ile Ala Tyr His Ile His Gly Asn Asn Trp Ile Tyr Gly  
130 135 140  
Glu Ala Leu Cys Asn Val Leu Ile Gly Phe Phe Tyr Gly Asn Met Tyr  
145 150 155 160  
Cys Ser Ile Leu Phe Met Thr Cys Leu Ser Val Gln Arg Tyr Trp Val  
165 170 175  
Ile Val Asn Pro Met Gly His Ser Arg Lys Lys Ala Asn Ile Ala Ile  
180 185 190  
Gly Ile Ser Leu Ala Ile Trp Leu Leu Thr Leu Leu Val Thr Ile Pro  
195 200 205  
Leu Tyr Val Val Lys Gln Thr Ile Phe Ile Pro Ala Leu Asn Ile Thr  
210 215 220  
Thr Cys His Asp Val Leu Pro Glu Gln Leu Leu Val Gly Asp Met Phe  
225 230 235 240  
Asn Tyr Phe Leu Ser Leu Ala Ile Gly Val Phe Leu Phe Pro Ala Phe  
245 250 255  
Leu Thr Ala Ser Ala Tyr Val Leu Met Ile Arg Met Leu Arg Ser Ser  
260 265 270  
Ala Met Asp Glu Asn Ser Glu Lys Lys Arg Lys Arg Ala Ile Lys Leu  
275 280 285  
Ile Val Thr Val Leu Gly Met Tyr Leu Ile Cys Phe Thr Pro Ser Asn  
290 295 300  
Leu Leu Leu Val Val His Tyr Phe Leu Ile Lys Ser Gln Gly Gln Ser

305	310	315	320												
His Val Tyr Ala Leu Tyr Ile Val Ala Leu Cys Leu Ser Thr Leu Asn															
325	330	335													
Ser Cys Ile Asp Pro Phe Val Tyr Tyr Phe Val Ser His Asp Phe Arg															
340	345	350													
Asp His Ala Lys Asn Ala Leu Leu Cys Arg Ser Val Arg Thr Val Lys															
355	360	365													
Gln Met Gln Val Pro Leu Thr Ser Lys Lys His Ser Arg Lys Ser Ser															
370	375	380													
Ser Tyr Ser Ser Ser Ser Thr Thr Val Lys Thr Ser Tyr															
385	390	395													
<210> 64															
<211> 424															
<212> PRT															
<213> Homo sapiens															
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Met	Gly	Pro	Arg	Arg	Leu	Leu	Leu	Val	Ala	Ala	Cys	Phe	Ser	Leu	Cys
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Gly Pro Leu Leu Ser Ala Arg Thr Arg Ala Arg Arg Pro Glu Ser Lys															
20				25					30						
Ala Thr Asn Ala Thr Leu Asp Pro Arg Ser Phe Leu Leu Arg Asn Pro															
35				40				45							
Asn Asp Lys Tyr Glu Pro Glu Trp Glu Asp Glu Glu Lys Asn Glu Ser															
50				55				60							
Gly Leu Thr Glu Tyr Arg Leu Val Ser Ile Asn Lys Ser Ser Pro Leu															
65				70				75			80				
Gln Lys Gln Leu Pro Ala Phe Ile Ser Glu Asp Ala Ser Gly Tyr Leu															
85				90				95							
Thr Ser Ser Trp Leu Thr Leu Phe Val Pro Ser Val Tyr Thr Gly Val															
100				105				110							
Phe Val Val Ser Leu Pro Leu Asn Ile Met Ala Ile Val Val Phe Ile															
115				120				125							
Leu Lys Met Lys Val Lys Lys Pro Ala Val Val Tyr Met Leu His Leu															
130				135				140							
Ala Thr Ala Asp Val Leu Phe Val Ser Val Leu Pro Phe Lys Ile Ser															
145				150				155			160				
Tyr Tyr Phe Ser Gly Ser Asp Trp Gln Phe Gly Ser Glu Leu Cys Arg															
165				170				175							
Phe Val Thr Ala Ala Phe Tyr Cys Asn Met Tyr Ala Ser Ile Leu Leu															
180				185				190							
Met Thr Val Ile Ser Ile Asp Arg Phe Leu Ala Val Val Tyr Pro Met															
195				200				205							
Gln Ser Leu Ser Trp Arg Thr Leu Gly Arg Ala Ser Phe Thr Cys Leu															
210				215				220							
Ala Ile Trp Ala Leu Ala Ile Ala Gly Val Val Pro Leu Val Leu Lys															
225				230				235			240				
Glu Gln Thr Ile Gln Val Pro Gly Leu Asn Ile Thr Thr Cys His Asp															

245 250 255

Val Leu Asn Glu Thr Leu Leu Glu Gly Tyr Tyr Ala Tyr Tyr Phe Ser  
260 265 270

Ala Phe Ser Ala Val Phe Phe Phe Val Pro Leu Ile Ile Ser Thr Val  
275 280 285

Cys Tyr Val Ser Ile Ile Arg Cys Leu Ser Ser Ala Val Ala Asn  
290 295 300

Arg Ser Lys Lys Ser Arg Ala Leu Phe Leu Ser Ala Ala Val Phe Cys  
305 310 315 320

Ile Phe Ile Ile Cys Phe Gly Pro Thr Asn Val Leu Leu Ile Ala His  
325 330 335

Tyr Ser Phe Leu Ser His Thr Ser Thr Thr Glu Ala Ala Tyr Phe Ala  
340 345 350

Tyr Leu Leu Cys Val Cys Val Ser Ser Ile Ser Ser Cys Ile Asp Pro  
355 360 365

Leu Ile Tyr Tyr Tyr Ala Ser Ser Glu Cys Gln Arg Tyr Val Tyr Ser  
370 375 380

Ile Leu Cys Cys Lys Glu Ser Ser Asp Pro Ser Ser Tyr Asn Ser Ser  
385 390 395 400

Gly Gln Leu Met Ala Ser Lys Met Asp Thr Cys Ser Ser Asn Leu Asn  
405 410 415

Asn Ser Ile Tyr Lys Lys Leu Leu Thr  
420